

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Raymond J. Dattwyler, Gerald Seinost, Daniel Dykhuizen, Benjamin J.

Luft and Maria J.C. Gomes-Solecki

Application No.:

09/596,746

Group Art Unit:

1645

Filed:

June 19, 2000

Examiner:

Rodney P. Swartz

For:

GROUPS OF BORRELIA BURGDORFERI AND BORRELIA AFZELII THAT CAUSE LYME DISEASE IN HUMANS

CERTIFICATE OF MAILING

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TRANSMITTAL OF FORMAL DRAWINGS

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Assistant Commissioner for Patents P.O. Box 2327 Arlington, VA 22202

Sir:

Transmitted herewith are formal drawings consisting of 8 sheets, Figures 1 through 8, for filing in the subject patent application.

Acceptance of the formal drawings is respectfully requested.

Respectfully submitted, HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

Sandra A. Brockman

Registration No. 44,045

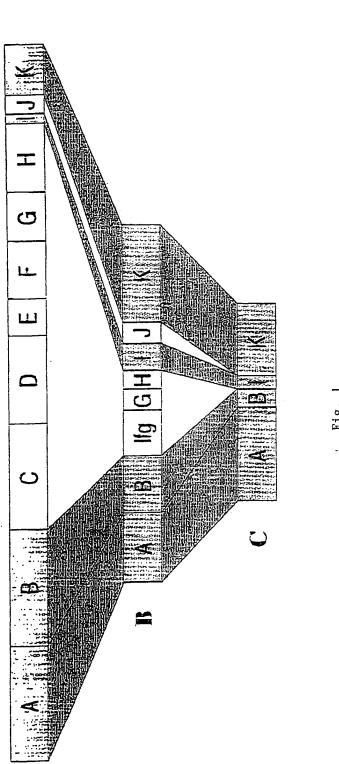
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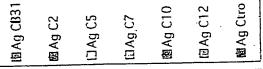
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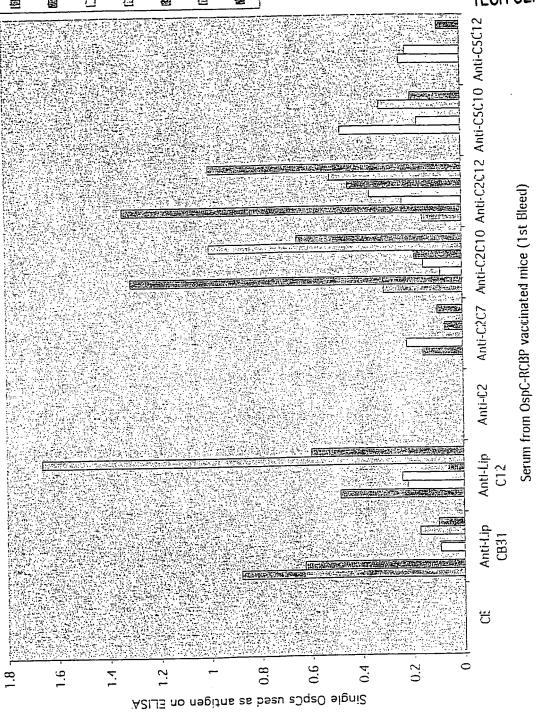
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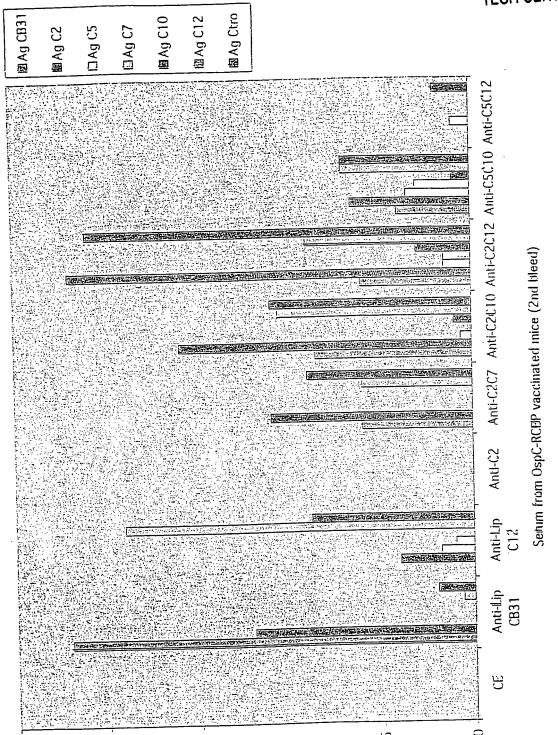
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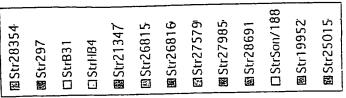
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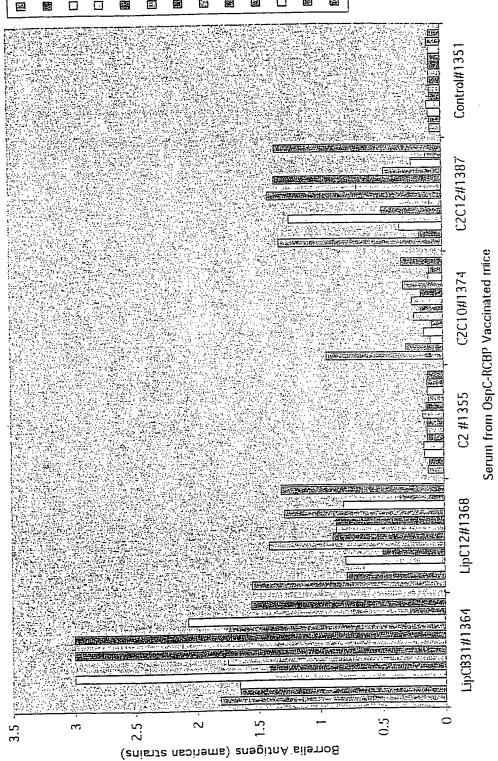
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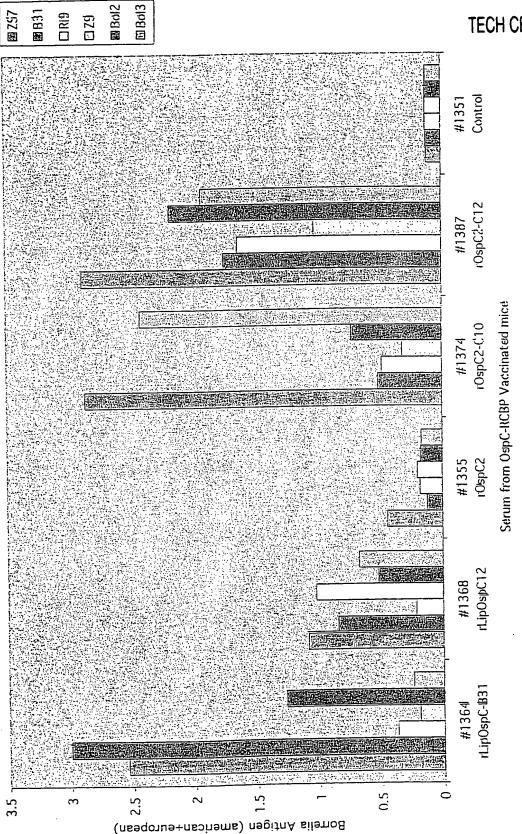
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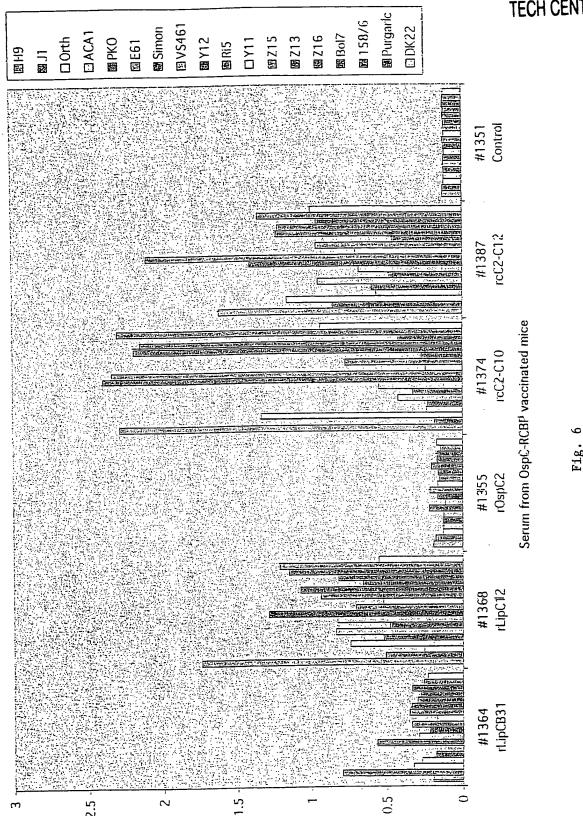


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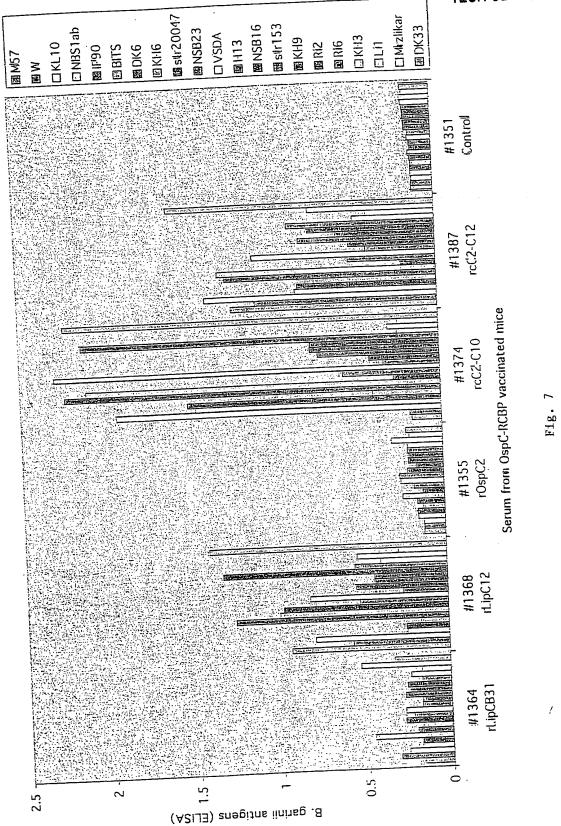
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	(%)	11%	11%	18%	7%	21%	8%	4%		88	13%	%0	29%
Specificity	#P(Total)	4(38)	4(38)	7(38)	2(30)	8(38)	3(38)	2(49)	1(49)	4(49)	4(30)	0(30)	11(38)
Potential cross-reactivity: #P(Total Tested)	Normals NonEnd.	0(8)	0(8)	0(8)	P	0(8)	0(8)	0(8)	0(8)	0(8)	S	Ð	0(8)
	Normals End.	2(10)	2(10)	2(10)	0(10)	4(10)	1(10)	1(20)	1(20)	3(20)	0(10)	0(10)	3(10)
	SLE &RA	1(10)	2(10)	1(10)	0(10)	2(10)	1(10)	0(10)	0(10)	1(10)	2(10)	0(10)	3(10)
	Syphilis	1(10)	0(10)	4(10)	2(10)	2(10)	1(10)	1(11)		0(11)	2(10)	0(10)	5(10)
Sensitivity	(%)	64%	61%0	57%	36%	68%	%89	51%	57%	63%	27%	54%	79%
	#P(Total)	18(28)	17(28)	16(28)	10(28)	19(28)	19(28)	18(35)	20(35)	22(35)	16(28)	15(28)	22(28)
Early Lyme: #P(total)	Ac. Conval.	8(8)	8(8)	5(8)	5(8)	5(8)	(8)	4(7)	4(7)	4(7)	5(8)	5(8)	(8)
	Ac. Dissem.	4(10)	5(10)	4(10)	3(10)	6(10)	6(10)	3(10)	5(10)	7(8) 6(10)	4(10)	4(10)	8(10)
	EA	Q	G	QN	QN	ON.	QN) 6(8) 3	7(8)	7(8)	Q	윤	2
Early L	EMA	(01)9	4(10)	7(10)	2(10)	8(10)	7(10)	5(10)	4(10)	5(10)	7(10)	(01)	8(10)
		C1 (chrt1)	C2 (chrt2)	C1C10 (chrt3)	C1C12 (chrt4)	B31C10 (chrt5)	B31C12 (chrt6)	C2C7 (chrt7)	C2C10 (chrt8)	C2C12 (chrt9)	C5C7 (chrt10)	C5C10 (chrt11)	C5C12 (chrt12)

SLE = Systemic Lupus Erythematosus Ac. Dissem.= Acute Disseminated Ac. Conval. = Acute Convalescent EMA = Erythema Migrans Acute RA = Rheumatoid Arthritis End. = Endemic Field Workers EA = Acute Disseminated #P = Number of positives NonEnd. = Non Endemic